



**To:** Distribution

**From:** Stephen Smith, Technical Writer

**Thru:** Ernestine Bryant, STOrage and RETrieval (STORET), Project Manager (PjM),  
Solutions Delivery Center (SDC)

**Subject:** Minutes of STORET Change Control Board (CCB) Meeting

## **1.0 Purpose**

A CCB Meeting was held on September 22, 2004 at the SDC. The purpose of the meeting was to review and address the status of current project activities, resolve project issues, and ensure that activities are within the scope of the Job Assignment (JA).

## **2.0 Attendees**

Bryant, Ernestine - Project Manager  
King, Robert - Job Assignment Manager (JAM)  
Manning, Lee  
Norris, Blythe  
Thadkamalla, Ganesh  
Wilson, Joseph

## **3.0 Discussion Topics**

The discussion covered the following topics:

- Action Items.
- STORET National Conference.
- Central Warehouse.
- Central Administration Module.

### **3.1 Introduction**

Attendees opened the meeting with a summary of project activities and a status of open action items. SIR Log (Attachment A) and User Support Log (Attachment B) are included as deliverables with these CCB Minutes.

### **3.2 STORET National Conference**

The National STORET Users Conference will be held November 15 - 17, 2004, in New Orleans, Louisiana. A separate meeting will be held to discuss the Project Team involvement and support.

### **3.3 Central Warehouse**

Automated tracking of Central Warehouse Data requests (SIR 1631) - The download requests will be tracked in the database by saving request information in a table located in STORETW schema. The following information will be recorded for each data request:

- Type of Report.
- Date and timestamp. This will be the same as used for report file name.
- Size of data file.
- Search criteria as boolean.

Station Type information in Result downloads (SIR1638) - Options for storing station type information in the result fact tables were discussed and the following decisions made:

- Store station types in result fact tables using a foreign key.
- Provide the option of downloading station type data in all types of result downloads.
- Include "Station Types" element group above the element "S/G/O Indicator" in "Select Data Elements for Report" section of Result Search Summary page.

The STORET development staff will coordinate with K. Christian on Extract, Transform, and Load (ETL) performance improvement strategies.

### 3.4 Central Administration Module

Native American Land (TSMNAL) reference table maintenance design was reviewed (Attachment C) and approved with the followed change:

- Populate the State drop down list with TSMGEOPA State Postal Codes.

Analytical Procedure (TSRANLPR) reference table maintenance design was reviewed (Attachment D) and approved with the following changes:

- Include all columns as well as foreign keys on the maintenance list form.
- Add a search criteria popup on the maintenance list form to filter based on TSRANLPR\_IS\_NUMBER or Procedure\_ID. As a general comment, any time a search criteria is required, include the associated IS\_Number column.
- Do not include a field for Description\_Text in the data entry form.
- Reverse order of Source Name and Acronym on data entry form to match order on associated selection list.
- Use Datagrid instead of Listbox control for pop-up selection lists.

### 4.0 Action Item Summary

Action items and their status are as follows:

Number	Action Item	Assignment	Date Issued	Status	Date Completed
0001	Research VB.NET capabilities and provide response.	B. Norris	06/02/2004	Closed	09/08/2004
0002	Provide STORET team with copy of Dasler software.	B. King	06/02/2004	Closed	08/25/2004
0003	Provide BEACHES program with STORET architecture information (e.g., Entity Relationship Diagram, data definitions).	J. Wilson	06/28/2004	Closed	07/28/2004
0004	Run ETL software week of July 12 <sup>th</sup> .	J.Wilson	06/28/2004	Closed	07/28/2004

Number	Action Item	Assignment	Date Issued	Status	Date Completed
0005	Provide copy of email discussing required changes to implement Uniform Resource Locator (URL) encoding for the Station Home Page.	B. Norris	06/14/2004	Closed	08/06/2004
0006	Send Report Module v2.0.3 deliverable.	S. Smith	07/28/2004	Closed	07/28/2004
0007	Include scripts to remove orphaned rows and nullify type_name column in TSRCHALS for next reference table upgrade.	L. Manning	07/28/2004	Closed	08/23/2004
0008	Investigate ITIS data acquisition and supplementary data processing.	L. Manning	07/28/2004	Open	
0009	Examine Native American Land (NAL) data for compliance to the Environmental Data Registry (EDR).	B. Norris	08/23/2004	Closed	09/08/2004
0010	Review structure of TSMNAICS table to see if it was expanded from its original source.	S. Smith	08/23/2004	Closed	09/08/2004
0011	Send Data Entry Module v2.0.1 deliverable.	S. Smith	09/08/2004	Closed	09/08/2004

## 5.0 Next Meeting

The next meeting will be held October 19, 2004 at 1:00 p.m.

## 6.0 Distribution

Name	Email
Bryant, Ernestine	
Christian, Kevin	Christian.Kevin@epamail.epa.gov
King, Robert	King.Robert@epamail.epa.gov
Manning, Lee	Manning.Lee@epamail.epa.gov
McElhinney, Cary	McElhinney.Cary@epa.gov
Szajgin, Tracey	

Name	Email
Wilson, Joseph	Wilson.Joe@epa.gov

## 7.0 Approval of Minutes

\_\_\_\_\_  
Robert E. King  
Job Assignment Manager

\_\_\_\_\_  
Date

**ATTACHMENT A**

SIRs Since Last CCB

Software Incident Reports Since Last CCB - Period: September 7, 2004 to September 21, 2004			
Release Version	Date Initiated	SIR #	Description
C2.0.4	09 09 2004	1638	Add Primary and Secondary Station Type Codes, with data type of VARCHAR2, to the Result fact tables.
R2.0.4	09 08 2004	1639	Modify installation so that data associated with previous upgrades does not produce constraint violations.
T2.0.1	09 08 2004	1636	Create a Field/Lab Analytical Procedure maintenance area that is compatible with the P2.0 database.
T2.0.1	09 08 2004	1637	Create a Lab Sample Prep Procedure maintenance area that is compatible with the P2.0 database.

Legend for System Version:

System Letter is concatenated with Version Number. System Letter Key:

C = Central Warehouse, E = Station Home Page, P = Data Entry Module, R = Report Module, T = Central Administration, U = Utilities

## **ATTACHMENT B**

### User Support Log



User Support Log - Period: September 7, 2004 to September 21, 2004			
Date Received	Application	Issue	Response
9/7/04	Reference Table Application	<p>The Reference Table Application is placing a single blank space rather than null in the TSRCHAR TAXON_SORT_CODE upon updating or inserting a non-Taxon name. Historically, this field had been null, and is now a mix of null and &lt;SPACE&gt;.</p> <p>Lee suspects this is associated with IEF/Composer/COOL:Gen/COOL. This can be fixed with a post-processing script (SET TAXON_SORT_CODE=" WHERE TAXON_SORT_CODE=' ') but it would be nice if it didn't do this. Any suggestions?</p>	Ernestine initially responded to Lee via phone call. Discussed again during the CCB on 09/22/2004. It is definitely a COOL:Gen issue. A post-processing script will be used until further notice.
9/14/04	Data Entry Module	User asked about the options on screen NA1 Native American Land Selection List. Only tribes with reservations were included in this list, thus excluding 38 of the 39 federally recognized tribes in Oklahoma.	This can be resolved with an update to the TSMNAL reference table. No change is required in the Data Entry Module. On window NAL1, the list is based on the TSMNAL table, by state. Additional Oklahoma tribes need to be added to the reference table, and may be released as a reference table update.

User Support Log - Period: September 7, 2004 to September 21, 2004			
Date Received	Application	Issue	Response
9/16/04	Data Entry Module	User wants to know where to find the choice list for the following Characteristics:	This choice list is maintained in the TSRCPV (i.e., Characteristic Permitted Value) reference table.
		Weather condition (WMO code 4501) (choice list)	NameNull?Type
		Weather condition (WMO code 4677) (choice list)	-----
			TSRCPV_IS_NUMBERNOT NULLNUMBER (12)
			TSRCPV_ORG_IDNOT NULLCHAR (8)
			SHORT_NAMENOT NULLCHAR (12)
			DESCRIPTION_TEXTVARCHAR2 (60)
			D_USERID_CODENOT NULLCHAR (8)
			D_LAST_UPDATE_TSNOT NULLDATE
			TSRCHAR_IS_NUMBERNUMBER (12)
	TSRCHAR_ORG_IDCHAR (8)		
		The relationship to TSRCHAR points to a Characteristic with D_SCR_TYPE_CD = 'PV' (e.g., Weather condition (WMO code 4501) (choice list)).	

**ATTACHMENT C**  
TSMNAL Window Design

SQL> desc tsmnal;

Name	Null?	Type
-----	-----	-----
TSMNAL_CD	NOT NULL	CHAR(5)
TSMNAL_STATE	NOT NULL	CHAR(2)
TSMNAL_ORG_ID	NOT NULL	CHAR(8)
NAME	NOT NULL	VARCHAR2(40)
D_USERID_CODE	NOT NULL	CHAR(8)
D_LAST_UPDT_TS	NOT NULL	DATE

Current Design (COOL:Gen):

State	Code	Name
AK	0110	Annette Islands
AK	6020	Akhiok
AK	6030	Akiachak
AK	6040	Akiak
AK	6050	Akutan
AK	6060	Alakanuk
AK	6070	Alatna
AK	6080	Aleknagik
AK	6090	Alexander
AK	6110	Allakaket
AK	6120	Ambler
AK	6130	Anaktuvuk Pass
AK	6140	Andreafsky
AK	6150	Angoon
AK	6160	Aniak
AK	6180	Anvik
AK	6195	Arctic Village
AK	6210	Atka
AK	6220	Atkasook
AK	6230	Atmautluak
AK	6260	Barrow
AK	6280	Beaver
AK	6290	Belkofski

State: AK

Code: 6090

Name: Alexander

Date of Last Update: 2003-01-01-00.00.00.000000

Updated By: USERV20

## Proposed Design (VB.NET):

State	Code	Name	User ID	Last Update
AK	0110	Annette Islands	USERV20	1/1/2003
AK	6020	Akhiok	USERV20	1/1/2003
AK	6030	Akiachak	USERV20	1/1/2003
AK	6040	Akiak	USERV20	1/1/2003
AK	6050	Akutan	USERV20	1/1/2003
AK	6060	Alakanuk	USERV20	1/1/2003
AK	6070	Alatna	USERV20	1/1/2003
AK	6080	Aleknagik	USERV20	1/1/2003
AK	6090	Alexander	USERV20	1/1/2003
AK	6110	Allakaket	USERV20	1/1/2003
AK	6120	Ambler	USERV20	1/1/2003
AK	6130	Anaktuvuk Pass	USERV20	1/1/2003
AK	6140	Andreafsky	USERV20	1/1/2003
AK	6150	Angoon	USERV20	1/1/2003
AK	6160	Aniak	USERV20	1/1/2003
AK	6180	Anvik	USERV20	1/1/2003
AK	6195	Arctic Village	USERV20	1/1/2003
AK	6210	Atka	USERV20	1/1/2003
AK	6220	Atkasook	USERV20	1/1/2003
AK	6230	Atmautluak	USERV20	1/1/2003
AK	6260	Barrow	USERV20	1/1/2003
AK	6280	Beaver	USERV20	1/1/2003
AK	6290	Belkofski	USERV20	1/1/2003
AK	6310	Bethel	USERV20	1/1/2003
AK	6330	Bill Moore's	USERV20	1/1/2003
AK	6350	Birch Creek	USERV20	1/1/2003
AK	6370	Brevig Mission	USERV20	1/1/2003
AK	6380	Buckland	USERV20	1/1/2003
AK	6400	Cantwell	USERV20	1/1/2003
AK	6410	Canyon Village	USERV20	1/1/2003
AK	6440	Chalkyitsik	USERV20	1/1/2003

State: [AK] Code: [6090] Name: [Alexander] Accept Cancel

State	Code	Name	User ID	Last Update
AK	0110	Annette Islands	USERV20	1/1/2003
AK	6020	Akhiok	USERV20	1/1/2003
AK	6030	Akiachak	USERV20	1/1/2003
AK	6040	Akiak	USERV20	1/1/2003
AK	6050	Akutan	USERV20	1/1/2003
AK	6060	Alakanuk	USERV20	1/1/2003
AK	6070	Alatna	USERV20	1/1/2003
AK	6080	Aleknagik	USERV20	1/1/2003
AK	6090	Alexander	USERV20	1/1/2003
AK	6110	Allakaket	USERV20	1/1/2003
AK	6120	Ambler	USERV20	1/1/2003
AK	6130	Anaktuvuk Pass	USERV20	1/1/2003
AK	6140	Andreafsky	USERV20	1/1/2003
AK	6150	Angoon	USERV20	1/1/2003
AK	6160	Aniak	USERV20	1/1/2003
AK	6180	Anvik	USERV20	1/1/2003
AK	6195	Arctic Village	USERV20	1/1/2003
AK	6210	Atka	USERV20	1/1/2003
AK	6220	Atkasook	USERV20	1/1/2003
AK	6230	Atmautluak	USERV20	1/1/2003
AK	6260	Barrow	USERV20	1/1/2003
AK	6280	Beaver	USERV20	1/1/2003
AK	6290	Belkofski	USERV20	1/1/2003
AK	6310	Bethel	USERV20	1/1/2003
AK	6330	Bill Moore's	USERV20	1/1/2003
AK	6350	Birch Creek	USERV20	1/1/2003
AK	6370	Brevig Mission	USERV20	1/1/2003
AK	6380	Buckland	USERV20	1/1/2003
AK	6400	Cantwell	USERV20	1/1/2003
AK	6410	Canyon Village	USERV20	1/1/2003
AK	6440	Chalkyitsik	USERV20	1/1/2003

State: [AK] Code: [6090] Name: [Alexander] Accept Cancel

**ATTACHMENT D**

TSRANLPR Window Design

SQL> desc tsranlpr;

Name	Null?	Type
-----	-----	-----
TSRANLPR_IS_NUMBER	NOT NULL	NUMBER (12)
TSRANLPR_ORG_ID	NOT NULL	CHAR (8)
OWNER_TYPE_CODE	NOT NULL	CHAR (3)
PROCEDURE_ID	NOT NULL	CHAR (15)
NAME	NOT NULL	VARCHAR2 (120)
SOURCE_NAME	NOT NULL	VARCHAR2 (65)
SOURCE_ACR		CHAR (12)
D_USERID_CODE	NOT NULL	CHAR (8)
D_LAST_UPDATE_TS	NOT NULL	DATE
TSRCITN_IS_NUMBER		NUMBER (12)
TSRCITN_ORG_ID		CHAR (8)
TSRANLPROIS_NUMBER		NUMBER (12)
TSRANLPROORG_ID		CHAR (8)
TSRANLEQ_IS_NUMBER		NUMBER (12)
TSRANLEQ_ORG_ID		CHAR (8)
DESCRIPTION_TEXT		VARCHAR2 (4000)



Existing Window Design (COOL:Gen):

**RT16 Analytical Procedure Maintenance List**

Source	Procedure ID	Procedure Name
AOAC	911.03	Strontium in Water
AOAC	920.13	Inorganic and Organometallic Pesticides
AOAC	920.193(A)	Total Solids in Water
AOAC	920.193(B)	Solids in Solution in Water
AOAC	920.193(C)	Solids in Water by Ignition
AOAC	920.194	Carbonate and Bicarbonate in Water
AOAC	920.195	Silica in Water
AOAC	920.196	Aluminum and Iron in Water
AOAC	920.197(A)	Iron in Water
AOAC	920.197(B)	Iron in Water
AOAC	920.198	Aluminum in Water
AOAC	920.199	Calcium in Water
AOAC	920.2	Magnesium in Water
AOAC	920.201	Barium in Water
AOAC	920.202	Mn, I, Br, As and Boric Acid in Water
AOAC	920.203	Manganese in Water
AOAC	920.204	Bromide and Iodide in Water
AOAC	920.205	Arsenic in Water
AOAC	920.34	Lime Sulfur Solution and Dry Lime Sulfur
AOAC	925.54	Sulfate in Water
AOAC	939.11	Fluoride in Water

**RT17 Analytical Procedure Data Entry**

IS Number:

Source:

Name:

Acronym:

Procedure ID:

Name:

Citation ID:

Citation:

Equipment:

Date of Last Update:  Updated By:

## Selection Lists:

**P7 National Analytical Procedure Source Selection List**

Source	Source Name
AOAC	Association of Official Analytical Chemists
APHA	American Public Health Association
ASTM	American Society for Testing of Materials
ENV/CANADA	Environment Canada, Technology Development Branch
FISON	Fisons Instruments Co, Applied Research Labs Div.
HACH	Hach Chemical Company
IL/SWSD	Illinois State Water Survey
ISO	International Organization for Standardization
NCASI	Nat. Council, Paper Industry for Air & Stream Improvement
NIOSH	National Institute for Occupational Safety and Health
USDOC/NOAA	USDOC, National Oceanographic and Atmospheric Adm.
USDOE/ASD	US Department of Energy, Analytical Services Div.
USDOE/EML	US-DOE, Environmental Measurements Lab, New York City, NY
USDOI/USGS	US-DOI, Geological Survey
USEPA	U.S. Environmental Protection Agency
USFDA	USFDA, Management Methods Branch/DMS Food and Drug Adm.

Select Cancel Help

**P4 Citation Selection List**

Type	ID	Citation
NAT		Unknown;19--;No Cite - Method Not Cited; Unknown;Vol --
NAT		American Public Health Association;1998;Standard Methods for the E
NAT		American Public Health Association;1992;Standard Methods for the E
NAT		American Public Health Association;1984;Laboratory Procedures for
NAT		American Society for Testing of Materials;1994;ASTM Standards. Gen
NAT		American Society for Testing of Materials;1994;ASTM Standards. Pair
NAT		American Society for Testing of Materials;1994;ASTM Standards. Petr
NAT		American Society for Testing of Materials;1994;ASTM Standards. Petr
NAT		American Society for Testing of Materials;1994;ASTM Standards. Petr
NAT		American Society for Testing of Materials;1994;ASTM Standards. Soil
NAT		American Society for Testing of Materials;1994;ASTM Standards. Soil
NAT		American Society for Testing of Materials;1994;ASTM Standards. Sol
NAT		American Society for Testing of Materials;1994;ASTM Standards. Wat
NAT		American Society for Testing of Materials;1994;ASTM Standards. Wat
NAT		American Society for Testing of Materials;1994;ASTM Standards. Wat
NAT		American Society for Testing of Materials;1994;ASTM Standards. Woc
NAT		Army Corps of Engineers;1970;Engineering and Design, Laboratory :
NAT		Association of Official Analytical Chemists;1990;Official Methods of A
NAT		Association of Official Analytical Chemists;19--;Manual of Chemical M
NAT		CEM Corporation;1992;Closed Vessel Microwave Digestion of Waste
NAT		EG&G Rocky Flats Environmental Management Dept.;1991;General F
NAT		Environment Canada;1993;Protocols & Performance Specifications f

Select Cancel Help

**P5 Field/Lab Analytical Equipment Selection List**

**Current Value**

Type:

Name:

**Search Criteria**

Type:

**Name**

Acoustic Flow Measuring System  
Acoustic Velocity Meter

## Proposed New Design (VB.NET):

Reference Tables Main Menu - [TSRANLPR (Analytical Procedure) Maintenance List]

File Table Edit Data Window Help

Source	Procedure ID	Name	User ID	Last Update	IS Number
AOAC	911.03	Strontium in Water	LJM	12/1/2003	636
AOAC	920.13	Inorganic and Organometallic Pesticides	LJM	12/1/2003	637
AOAC	920.193(A)	Total Solids in Water	LJM	12/1/2003	638
AOAC	920.193(B)	Solids in Solution in Water	LJM	12/1/2003	639
AOAC	920.193(C)	Solids in Water by Ignition	LJM	12/1/2003	640
AOAC	920.194	Carbonate and Bicarbonate in Water	LJM	12/1/2003	641
AOAC	920.195	Silica in Water	LJM	12/1/2003	642
AOAC	920.196	Aluminum and Iron in Water	LJM	12/1/2003	643
AOAC	920.197(A)	Iron in Water	LJM	12/1/2003	644
AOAC	920.197(B)	Iron in Water	LJM	12/1/2003	645
AOAC	920.198	Aluminum in Water	LJM	12/1/2003	646
AOAC	920.199	Calcium in Water	LJM	12/1/2003	647
AOAC	920.2	Magnesium in Water	LJM	12/1/2003	648
AOAC	920.201	Barium in Water	LJM	12/1/2003	649
AOAC	920.202	Mn, I, Br, As and Boric Acid in Water	LJM	12/1/2003	650
AOAC	920.203	Manganese in Water	LJM	12/1/2003	651
AOAC	920.204	Bromide and Iodide in Water	LJM	12/1/2003	652
AOAC	920.205	Arsenic in Water	LJM	12/1/2003	653
AOAC	920.34	Lime Sulfur Solution and Dry Lime Sulfur	LJM	12/1/2003	654
AOAC	925.54	Sulfate in Water	LJM	12/1/2003	655
AOAC	939.11	Fluoride in Water	LJM	12/1/2003	656
AOAC	949.09	Monofluoroacetic Acid Pesticide Residues	LJM	12/1/2003	657
AOAC	949.1	Monofluoroacetic Acid Pesticide Residues	LJM	12/1/2003	658
AOAC	949.12	Microchemical Deter. of Carbon and Hydrogen	LJM	12/1/2003	659
AOAC	952.24	Microchemical Determination of Br, Cl, or I	LJM	12/1/2003	660
AOAC	952.25	Microchemical Determination of Sulfur	LJM	12/1/2003	661
AOAC	955.48	Microchemical Determination of Sulfur	LJM	12/1/2003	662
AOAC	956.07	Microchemical Determination of Alkoxyl Group	LJM	12/1/2003	663
AOAC	957.14	Captan Pesticide Residues	LJM	12/1/2003	664
AOAC	957.18	Microchemical Determination of Phosphorus	LJM	12/1/2003	665
AOAC	960.1	Herbicides (Ester Forms)	LJM	12/1/2003	666
AOAC	960.14(A)	Quaternary Ammonium Compounds	LJM	12/1/2003	667
AOAC	960.14(B)	Quaternary Ammonium Compounds	LJM	12/1/2003	668
AOAC	960.43	Piperonyl Butoxide Residues	LJM	12/1/2003	669
AOAC	960.52	Microchemical Determination of Nitrogen	LJM	12/1/2003	670

Start [Icons] Inbo... Sys Doc anpr... STOR... nal\_de... SO11 ... RT1 R... Orad... Refer... 9:51 AM

Reference Tables Main Menu - [TSRANLPR (Analytical Procedure) Maintenance List]

File Table Edit Data Window Help

Source	Procedure ID	Name	User ID	Last Update	IS Number
AOAC	911.03	Strontium in Water	LJM	12/1/2003	636
AOAC	920.13	Inorganic and Organometallic Pesticides	LJM	12/1/2003	637
AOAC					638
AOAC					639
AOAC					640
AOAC					641
AOAC					642
AOAC					643
AOAC					644
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AOAC					662
AOAC					663
AOAC					664
AOAC					665
AOAC					666
AOAC	960.14(A)	Quaternary Ammonium Compounds	LJM	12/1/2003	667
AOAC	960.14(B)	Quaternary Ammonium Compounds	LJM	12/1/2003	668
AOAC	960.43	Piperonyl Butoxide Residues	LJM	12/1/2003	669
AOAC	960.52	Microchemical Determination of Nitrogen	LJM	12/1/2003	670

Start [Icons] Inbo... Sys Doc anpr... STOR... nal\_de... SO11 ... RT1 R... Orad... Refer... TSRA... 10:05 AM

**TSRANLPR (Analytical Procedure) Data Entry**

IS Number

Source

Name  >>

Acronym

Procedure ID

Name

Citation ID

Citation  >>

Equipment  >>

Date of Last Update  Updated By

Accept Cancel

Source List of Values:

**TSRANLPR (Analytical Procedure) Data Entry**

IS Number

Source

Name  >>

Acronym

Procedure ID	SOURCE	SOURCE NAME
	AOAC	Association of Official Analytical Chemists
	APHA	American Public Health Association
	ASTM	American Society for Testing of Materials
	ENV/CANADA	Environment Canada, Technology Development Branch
	FISON	Fisons Instruments Co, Applied Research Labs Div.
	HACH	Hach Chemical Company
	IL/SWSD	Illinois State Water Survey
	ISO	International Organization for Standardization
	NCASI	Nat. Council, Paper Industry for Air & Stream Improvement
	NIOSH	National Institute for Occupational Safety and Health
	USDOC/NOAA	USDOC, National Oceanographic and Atmospheric Adm.
	USDOE/ASD	US Department of Energy, Analytical Services Div.
	USDOE/EML	US-DOE, Environmental Measurements Lab, New York City, NY
	USDOJ/USGS	US-DOI, Geological Survey
	USEPA	U.S. Environmental Protection Agency
	USFDA	USFDA, Management Methods Branch/DMS Food and Drug Adm.

Accept Cancel

Citation List of Values:

**TSRANLPR (Analytical Procedure) Data Entry**

IS Number

Source

Name  >>

Acronym

Procedure ID

Name

Citation ID

Citation  >>

Equipment

Date of Last Update

ID	CITATION
	Unknown;19--;No Cite - Method Not Cited; Unknown;Vol --
	American Public Health Association;1998;Standard Methods for the Examination of Water and Wastewater
	American Public Health Association;1992;Standard Methods for the Examination of Water and Wastewater
	American Public Health Association;1984;Laboratory Procedures for the Examination of Water and Wastewater
	American Society for Testing of Materials;1994;ASTM Standards. General Products, Chemicals, and Allied Products
	American Society for Testing of Materials;1994;ASTM Standards. Paints, Related Coatings, and Surface Treatments
	American Society for Testing of Materials;1994;ASTM Standards. Petroleum Products, Liquid Fuels, and Petroleum Products, L
	American Society for Testing of Materials;1994;ASTM Standards. Petroleum Products, L
	American Society for Testing of Materials;1994;ASTM Standards. Petroleum Products, L
	American Society for Testing of Materials;1994;ASTM Standards. Soil and Rock (I); American Society for Testing of Materials;1994;ASTM Standards. Soil and Rock (II); American Society for Testing of Materials;1994;ASTM Standards. Solar and Geothermal Energy
	American Society for Testing of Materials;1994;ASTM Standards. Water and Environmental Protection
	American Society for Testing of Materials;1994;ASTM Standards. Water and Environmental Protection
	American Society for Testing of Materials;1994;ASTM Standards. Water and Environmental Protection
	American Society for Testing of Materials;1994;ASTM Standards. Water and Environmental Protection

Accept Cancel

Equipment List of Values:

TSRANLPR (Analytical Procedure) Data Entry

IS Number

Source

Name

Acronym

Procedure ID

Name

TYPE	NAME
Acoustic Velocity	Acoustic Flow Measuring System
Acoustic Velocity	Acoustic Velocity Meter
Autoanalyzer	AutoAnalyzer
Autoanalyzer	Carbon Analyzer
Autoanalyzer	Carbon Dioxide Analyzer
Chromatography	Bruel and Kjaer Multi-gas Monitor (Type 1302)
Chromatography	Capillary Column Gas Chromatograph
Chromatography	Capillary GC Electron Capture Detector
Chromatography	Capillary GC with Electrolytic Conductivity Detector
Chromatography	Capillary GC with Flame Ionization Detector
Chromatography	Capillary GC with Flame Photometric Detector
Chromatography	Capillary GC with Halogen Specific Detector
Chromatography	Capillary GC with High Resolution Mass Spectrophotometer
Chromatography	Capillary GC with Low Resolution Mass Spectrophotometer
Chromatography	Capillary GC with Nitrogen-phosphorus Detector
Chromatography	Capillary GC with Photoionization Detector
Chromatography	Capillary Gas Chromatograph with Mass Spectrophotometer

Citation ID

Citation

Equipment

Date of Last Update

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Problem with List Box (tabbing between columns):

TSRANLPR (Analytical Procedure) Data Entry

IS Number

Source

Name

Acronym

Procedure ID

Name

ID	CITATION
Unknown;19--;No Cite - Method Not Cited; Unknown;Vol --	
TEST	American Public Health Association;1998;Standard Methods for the Examination of Water and Wastewater
	American Public Health Association;1992;Standard Methods for the Examination of Water and Wastewater
	American Public Health Association;1984;Laboratory Procedures for the Examination of Water and Wastewater
	American Society for Testing of Materials;1994;ASTM Standards. General Products, Chemicals, and Related Products
	American Society for Testing of Materials;1994;ASTM Standards. Paints, Related Coatings, and Surface Treatments
	American Society for Testing of Materials;1994;ASTM Standards. Petroleum Products, Liquid Fuels, and Related Products
	American Society for Testing of Materials;1994;ASTM Standards. Petroleum Products, Solid Fuels, and Related Products
	American Society for Testing of Materials;1994;ASTM Standards. Soil and Rock (I), and Soil and Rock (II)
	American Society for Testing of Materials;1994;ASTM Standards. Solar and Geothermal Energy
	American Society for Testing of Materials;1994;ASTM Standards. Water and Environmental Protection
	American Society for Testing of Materials;1994;ASTM Standards. Water and Environmental Protection
	American Society for Testing of Materials;1994;ASTM Standards. Water and Environmental Protection
	American Society for Testing of Materials;1994;ASTM Standards. Water and Environmental Protection

Citation ID

Citation

Equipment

Date of Last Update

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Datagrid would eliminate this problem.

Citation list as a DataGrid:

